SEQUENCE LISTING

<110> Wei, Ying-Fei et al.

B1

<120> Transforming Growth Factor Alpha HIII

<130> PF220P1

<140> 09/726,348
<141> 2000-12-01

<150> 08/778,545
<151> 1997-01-03

<150> 60/011,136
<151> 1996-01-04

<150> 60/168,387
<151> 1999-12-02

<160> 21

<170> PatentIn version 3.0

<210> 1
<211> 923
<212> DNA
<213> homo sapiens

<400> 1

gaaaatggcg cctcacggcc cgggtagtct tacgaccctg gtgccctggg ctgccgccct 60

gctcctcgct ctgggcgtgg aaagggctct ggcgctaccc gagatatgca cccaatgtcc 120

agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagctaat 180

gctgcatgcc cgttgctgcc tgaatcagaa gggcaccatc ttggggctgg atctccagaa 240

ctgttctctg gaggaccctg gtccaaactt tcatcaggca cataccactg tcatcataga 300

cctgcaagca aacccccctca aaggtgactt ggccaacacc ttccgtggct ttactcagct 360

ccagactctg atactgccac aacatgtcaa ctgtcctgga ggaattaatg cctggaatac 420

tatcacctct tatatagaca accaaatctg tcaagggcaa aagaaccttt gcaataacac 480

tggggaccca gaaatgtgtc ctgagaatgg atcttgtgta cctgatggtc caggtctttt 540

gcagtgtgtt tgtgctgatg gtttccatgg atacaagtgt atgcgccagg gctcgttctc 600

actgcttatg ttcttcggga ttctgggagc caccactcta tccgtctcca ttctgctttg 660

ggcgacccag cgccgaaaag ccaagacttc atgaactaca taggtcttac cattgaccta 720

agatcaatct gaactatctt agcccagtca gggagctctg cttcctagaa aggcatcttt 780

cgccagtgga ttcgcctcaa ggttgaggcc gccattggaa gatgaaaaat tgcactccct 840

tggtgtagac aaataccagt tcccattggt gttgttgcct ataataaaca ctttttttctt 900

ttttaaaaaa aaaaaaaaaa aaa 923

Cont
Cl

<210> 2
<211> 229
<212> PRT
<213> homo sapiens

<400> 2

Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala
-25 -20 -15 -10

Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro
-5 1 5

Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val
10 15 20

Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys
25 30 35

Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
40 45 50 55

Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
60 65 70

Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
75 80 85

Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
90 95 100

Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
105 110 115

Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
120 125 130 135

Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
140 145 150

Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
155 160 165

Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
170 175 180

Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
185 190 195

Lys Ala Lys Thr Ser
200

<210> 3

<211> 52
<212> PRT
<213> homo sapiens

<400> 3

Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly Asp Pro Glu Met Cys Pro
1 5 10 15

Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val
20 25 30

Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe
35 40 45

Ser Leu Leu Met
50

<210> 4
<211> 733
<212> DNA
<213> homo sapiens

<400> 4
gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60

aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga 120

tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180

tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240

aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300

ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360

agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420

catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480

atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540

ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600

acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660

acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720

gactctagag gat 733

<210> 5
<211> 5
<212> PRT
<213> WSXWS motif

<220>
<221> SITE

<222> (3)..(3)
<223> Xaa equals any amino acid

<400> 5

Trp Ser Xaa Trp Ser
1 5

<210> 6
<211> 86
<212> DNA
<213> oligonucleotide

<220>
<221> protein_bind
<222> (1)..(86)
<223> 5' primer containing 18bp complementary to SV40 promotor and an XhoI site

<400> 6
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

cccgaaatat ctgccatctc aattag 86

<210> 7
<211> 27
<212> DNA
<213> oligonucleotide

<220>
<221> protein_bind
<222> (1)..(27)
<223> 3' primer containing sequence complementary to SV40 promotor and a HindIII site

<400> 7
gcggcaagct ttttgcaaag cctaggc 27

<210> 8
<211> 271
<212> DNA
<213> Homo sapiens

<400> 8
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120

gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180

ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240

ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 9
<211> 32
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(32)
<223> 5' PCR primer

<400> 9
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 10
<211> 31
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(31)
<223> 3' PCR primer

<400> 10
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 11
<211> 12
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(12)
<223> NF-KB repeat in upstream primer

<400> 11
ggggactttc cc 12

<210> 12
<211> 73
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(73)
<223> 5' primer containing the NF-KB binding site, 18bp complementary to SV40 promotor, and an XhoI site

<400> 12
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60

ccatctcaat tag 73

<210> 13
<211> 256
<212> DNA
<213> Homo sapiens

<400> 13
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60

caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc 120

cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180

ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggctttttg gaggcctagg 240

cttttgcaaa aagctt 256

<210> 14
<211> 27
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(27)
<223> 5' primer containing a BamHI site and 18nt of TGF alpha HIII

<400> 14
cgcggatccg ggcaaaagaa cctttgc 27

<210> 15
<211> 30
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(30)
<223> 3' primer containing an XbaI site and 21 nt of TGF alpha HIII

<400> 15
gcgtctagac taaagcagtg agaacgagcc 30

<210> 16
<211> 34
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(34)
<223> 5' primer containing a BamHI site

<400> 16
cgcggatccg tccatcatgg cgcctcacgg cccg 34

<210> 17
<211> 33
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(33)
<223> 3' primer containing an XbaI site

<400> 17
gcgtctagac tacataagca gtgacaacga gcc 33

<210> 18
<211> 28
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(28)
<223> 5' primer containing a BamHI site

<400> 18
cgcggatccc gggcaaaaga acctttgc 28

<210> 19
<211> 33
<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(33)
<223> 3' primer containing an XbaI site

<400> 19
gcgtctagac tacataagca gtgagaacga gcc 33

<210> 20
<211> 34

<212> DNA
<213> oligonucleotide

<220>
<221> primer_bind
<222> (1)..(34)
<223> 5' primer containing a BamHI site and 18nt of TGF alpha HIII

<400> 20
cgcggatccg tccatcatgg cgcctcacgg cccg 34

<210> 21
<211> 30
<212> DNA
<213> oligonucleotide

<220>
<221> protein_bind
<222> (1)..(30)
<223> 3' primer containing an XhoI site and 21 nt of TGF alpha HIII

<400> 21
gcgctcagac ataagcagtg agaacgagcc 30

Docket No.: PF220P1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Wei, Ying-Fei

Application No.: 09/726,348 Group Art Unit: 1647

Filed: December 1, 2000 Examiner: Spector, L.

For: Transforming Growth Factor Alpha HIII

STATEMENT UNDER 37 C.F.R. §§1.821 and 1.825

Assistant Commissioner For Patents
Washington, D.C. 20231

Sir:

Applicants hereby certify under 37 C.F.R. §§1.821(f) and 1.825(b) that the contents of the paper and computer-readable forms of the Substitute Sequence Listing submitted herewith, are the same.

Moreover, applicants hereby certify under 37 C.F.R. §§1.821(g) and 1.825(a) that the Substitute Sequence Listing contains no new matter.

Respectfully submitted,

Dated: 16 August 2002

Lin J. Hymel (Reg. No. 45,414)
Attorney for Applicants

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, MD 20850
Telephone: (301) 251-6015

KKH/LJH/JS